

# INSULATION MONITOR

Patent number: JP2003344476  
Publication date: 2003-12-03  
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Classification:  
- International: G01R31/12; G01R31/02; H02H3/34  
- european:  
Application number: JP20020151256 20020524  
Priority number(s): JP20020151256 20020524

## Abstract of JP2003344476

<P>PROBLEM TO BE SOLVED: To provide an insulation monitor for well monitoring insulation degradation of a cable way by a simple structure. <P>SOLUTION: A zero-phase-sequence current transformer 1 for a leakage relay is provided on a grounding wire of the cable way 5. To its secondary winding, a receiver 3 is connected to detect a leakage current. A capacitor device 4 of variable capacitance is attached to R and T phases of a non-grounding cable way, and the other end is grounded after it is wound as a primary winding of the transformer 1 for the leakage relay. The winding on the transformer 1 for the leakage relay of the capacitor device 4 is wound in such a winding direction that the phase of a current  $I_c$  flowing through the capacitor device is reverse to the phase of a leakage current  $I_{gc}$  induced by ground capacitance  $C_{gc1}$  and  $C_{gc2}$  of the cable way 5. When the capacitance of the capacitor device 4 is set, a zero-phase-sequence current transformer 2 for a leakage ammeter is provided contiguous to the transformer 1 for the leakage relay. <P>COPYRIGHT: (C) 2004,JPO

